

Amendments to the Specification:

Please replace the paragraph on page 8 beginning at line 11 with the following amended paragraph:

Cell cycle proteins of the present invention may be shorter or longer than the amino acid sequence encoded by the nucleic acid shown in the Figure 1. Thus, in a preferred embodiment, included within the definition of cell cycle proteins are portions or fragments of the amino acid sequence encoded by the nucleic acid sequence provided herein. In one embodiment herein, fragments of cell cycle proteins are considered cell cycle proteins if a) they share at least one antigenic epitope; b) have at least the indicated sequence identity; c) and preferably have cell cycle biological activity as further defined herein. In some cases, where the sequence is used diagnostically, that is, when the presence or absence of cell cycle protein nucleic acid is determined, only the indicated sequence identity is required. The nucleic acids of the present invention may also be shorter or longer than the sequence in the Figure 1. The nucleic acid fragments include any portion of the nucleic acids provided herein which have a sequence not exactly previously identified; fragments having sequences with the indicated sequence identity to that portion not previously identified are provided in an embodiment herein.

Please replace the paragraph on page 8 beginning at line 24 with the following amended paragraph:

In addition, as is more fully outlined below, cell cycle proteins can be made that are longer than those depicted in the Figure 2A; for example, by the addition of epitope or purification tags, the addition of other fusion sequences, or the elucidation of additional coding and non-coding sequences. As described below, the fusion of a cell cycle peptide to a fluorescent peptide, such as Green Fluorescent Peptide (GFP), is particularly preferred.

Please replace the paragraph on page 8 beginning at line 29 with the following amended paragraph:

Cell cycle proteins may also be identified as encoded by cell cycle nucleic acids which hybridize to the sequence depicted in the Figure 1, or the complement thereof, as outlined herein.

Hybridization conditions are further described below.

Amendments to the Abstract:

Please substitute the following paragraph for the abstract at page 55.

The invention provides cell cycle protein R0101, nucleic acids that encode cell cycle protein R0101, and related molecules. The invention also provides methods for identifying compositions that bind to cell cycle protein R0101 and use of such compositions in diagnosis and treatment of disease.